

WHAT IS CLAIMED IS:

1. A method for performing multiplex PCR for having at least two amplified DNA products from samples positioned within a PCR equipment, characterized in that the step of changing a primer annealing temperature and
5 an extension time per cycles of constant period.

2. The method in claim 1,

wherein said samples are blood, plasma, proto DNA(vector),. CDNA library, genome, or cellurar tissue including genome.

10

3. The method in claim 2,

wherein said blood is diluted one.

4. The method as set forth in claim 1,

15 wherein said PCR equipment can change the set temperature and time parameters per cycles of constant period.

5. The method as set forth in claim 1,

20 wherein said annealing temperature and extension time increase per cycles of constant period.

6. The method as set forth in claim 5,

wherein said annealing temperature increases by a value of ($T_{m_max} - T_{m_min}$) for 1 cycle, and

said extension time increases by value $[(L_{\max} - L_{\min}) / (\text{rate of DNA synthesis of taq DNA polymerase; bp/sec})] / (\text{total cycles} - 7)$, wherein said L_{\max} indicates the size of the largest PCR product, and said L_{\min} indicates the size of the shortest PCR product.

5

7. The method as set forth in claim 2,

wherein said sample has a volume of less than $1 \mu\text{l}$.